

**ABSTRACT OF THE DISCLOSURE**

A system for controlling a hydraulic pressure of an automatic transmission includes a torque converter having a lockup clutch for direct coupling between an engine and the transmission, a lockup solenoid valve for providing a signal pressure for controlling engagement of the lockup clutch, a lockup control valve for providing an engagement pressure to the lockup clutch in accordance with the signal pressure, and a CVT control unit for controlling the lockup solenoid valve. The CVT control unit is programmed to determine torque provided to the torque converter and control the signal pressure in accordance with the torque.